UTILITY PATENT APPLICATION TRANSMITTAL

(Large Entity)
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. END920010002US1

Total Pages in this Submission
4

#### TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application Washington, D.C. 20231

| <b>≡</b> ∪              |                              | Washington, D.C. 20231                                     |  |
|-------------------------|------------------------------|--|--|
|                         |                              | S.C. 111(a) and 37 C.F.R. 1.53                             | B(b) is a new utility patent application for 🏖 🚆   |
| LEAD-FREE               |                              | ND METHOD FOR HIGH FAT                                     | TIGUE LIFE 700   |
|                         |                              |  | n 177  |
|                         |                              |  | 900  |
| and invented by         |                              |  | Τ =  |
| S. K. Ray et a          | <b>l.</b>                    |  | TERNATIONAL BUSINESS MACHINES ORPORATION   |
| -                       |                              | ASSIGNEE RESIDENC  | E: ARMONK, NEW YORK  |
|                         |                              |  | the constitution of the second |
| !                       |                              | eck appropriate box and supply  Continuation-in-part (CIP) | ·  |
| ☐ Continual Which is a: |                              | Continuation-in-part (Cir)                                 | or prior application No  |
| Continual               | tion 🗌 Divisional 🗆          | Continuation-in-part (CIP)                                 | of prior application No.:  |
| Which is a:             |                              | , , ,  |  |
| ☐ Continua              | tion 🗌 Divisional 🗆          | Continuation-in-part (CIP)                                 | of prior application No.:  |
|                         |                              |  |  |
| Enclosed are:           |                              | Application Elements                                       |  |
|                         |                              |  |  |
| 1. 🛭 Filir              | ng fee as calculated and tra | ansmitted as described below                               |  |
| 2. 🛛 Spe                | ecification having           | 23 pages and   | including the following:   |
| a. 🛚                    | Descriptive Title of the Inv | vention  |  |
| _                       |                              |  |  |
| b. 🗆                    |                              | ated Applications (if applicable)                          |  |
| c. 🗆                    | -                            | derally-sponsored Research/Do                              | ечеторттети (п аррисавте)  |
| d. 🗖                    | Reference to Microfiche      |  |  |
| e. <b>⊠</b>             | Background of the Invent     | tion   |  |
| f. 🛚                    | Brief Summary of the Inve    | rention  |  |
| g. 🛚                    | Brief Description of the D   | rawings (if drawings filed)                                |  |
| h. 🔀                    | Detailed Description         |  |  |
| i. 🛭                    | Claim(s) as Classified Be    | elow   | ;  |
| ~j⊠-                    | Abstract of the Disclosure   | e  |  |
|                         |                              |  |  |

## UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. END920010002US1

Total Pages in this Submission

### Application Elements (Continued)

| 3.  |            | Drawing(s) (when necessary as prescribed by 35 USC 113)   |
|-----|------------|---|
|     | 3 S<br>a.  | HEETS  Formal  Number of Sheets   |
|     | b.         | ☐ Informal Number of Sheets   |
| 4.  | ×          | Oath or Declaration   |
|     | a.         | □ Newly executed (original or copy) ☑ Unexecuted  |
|     | <b>b</b> . | Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)   |
|     | c.         | ☑ With Power of Attorney ☐ Without Power of Attorney  |
|     | d.         | DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).  |
| 5.  |            | Incorporation By Reference (usable if Box 4b is checked)  |
|     |            | The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein. |
| 6.  |            | Computer Program in Microfiche (Appendix)   |
| 7.  |            | Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)  |
|     | a.         | ☐ Paper Copy  |
|     | b.         | ☐ Computer Readable Copy (identical to computer copy)   |
|     | c.         | ☐ Statement Verifying Identical Paper and Computer Readable Copy  |
|     |            | Accompanying Application Parts  |
| 8.  |            | Assignment Papers (cover sheet & document(s))   |
| 9.  |            | 37 CFR 3.73(B) Statement (when there is an assignee)  |
| 10. |            | English Translation Document (if applicable)  |
| 11. | ×          | Information Disclosure Statement/PTO-1449   Copies of IDS Citations   |
| 12. |            | Preliminary Amendment   |
| 13. | ×          | Acknowledgment postcard   |
| 14. | ×          | Certificate of Mailing  |
|     |            | ☐ First Class ☒ Express Mail (Specify Label No.): ET029404752US   |

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. END920010002US1

Total Pages in this Submission

**Accompanying Application Parts (Continued)** 

|     | Accompanying Application 1 and (Continued)   |
|-----|--|
| 15. | Certified Copy of Priority Document(s) (if foreign priority is claimed)  |
| 16. | Additional Enclosures (please identify below):   |
|     |  |
| •   |  |
|     | Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)  |
| 17. | Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.  |
|     | Warning  |
|     | An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional. |
|     |  |
|     |  |
|     |  |

### UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. END920010002US1

Total Pages in this Submission

#### **Fee Calculation and Transmittal**

| For               | #Filed          | #Allowed         | #Extra |   | Rate             | Fee      |
|-------------------|-----------------|------------------|--------|---|------------------|----------|
| Total Claims      | 30              | - 20 =           | 10     | × | \$18.00          | \$180.00 |
| ndep. Claims      | 4               | - 3 =            | 1      | × | \$80.00          | \$80.00  |
| Multiple Dependen | t Claims (check | c if applicable) |        |   |                  | \$0.00   |
|                   |                 |                  |        |   | BASIC FEE        | \$710.00 |
| OTHER FEE (spe    | cify purpose)   |                  |        |   |                  | \$0.00   |
|                   |                 |                  |        |   | TOTAL FILING FEE | \$970.00 |

as filing fee.

The Commissioner is hereby authorized to charge and credit Deposit Account No.

\$970.00

09-0457

as described below. A duplicate copy of this sheet is enclosed.

 □ Charge the amount of the control of the ☑ Credit any overpayment.

☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance,

pursuant to 37 C.F.R. 1.311(b).

Dated:

Je6. 08, 2001

Lawrence R. Fraley, Reg. No. 26,885

IBM Corporation / IP Law Dept. N50/040-4

1701 North Street

Endicott, NY 13760

Telephone: (607)755-3207 Fax No.: (607) 755-3250

cc:- RECORDS

| pplicant(s): S. K. Ray et                   | IA NG BY "EXPRESS I  | MAIL'' (37 CFR )                             | Docket No. <b>END920010002US1</b> |  |
|---|--|--|-----------------------------------|--|
| Serial No.                                  | Filing Date HEREWITH   | Examiner                                     | Group Art Unit                    |  |
| vention: LEAD-FREE                          | SOLDER STRUCTURE AND M   | METHOD FOR HIGH FATIGU                       | E LIFE                            |  |
| I hereby certify that the                   | following correspondence:                                      |  |                                   |  |
| Patent Application, 3 unsigned declaration, | 3 sheets drawings, Fee Transm<br>, postcards, express mail cer | nittal, IDS, PTO-1449 Form &<br>tificate     | references,                       |  |
|   | (Identify type   | of correspondence)                           |                                   |  |
|   | the United States Postal Servi lope addressed to: The Assista  |  |                                   |  |
|   |  | Christine Lang                               |                                   |  |
|   |  | (Typed or Printed Name of Person I           | Mailing Correspondence)           |  |
|   |  | Christerie 2<br>(Signature of Person Mailing | Scorrespondence)                  |  |
|   |  | ET0294047                                    | 52US                              |  |
|   | <del></del>  | ("Express Mail" Mailing                      | Label Number)                     |  |
|   |  |  |                                   |  |

Note: Each paper must have its own certificate of mailing.